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SHEET 1 OF 2

FORM PTO-1449  
(Rev. 2-32)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
TER-002.2P

SERIAL NO.  
08/684,243

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
RAKIB, et al.

FILING DATE  
07/19/96

GROUP  
27

(USE SEVERAL SHEETS IF NECESSARY)

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APR 25 2001  
Technology Center 2600

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	Re. 35,774	Apr. 21, 1998	Moura, et al.	348	12	Nov. 16, 1994
PS	B	4,829,569	May 9, 1989	Seth-Smith, et al.	380	10	Jul. 8, 1986
PS	C	4,894,789	Jan. 16, 1990	Yee	364	521	Feb. 22, 1988
PS	D	5,093,718	Mar. 3, 1992	Hoarty, et al.	358	84	Sep. 28, 1990
PS	E	5,130,983	Jul. 14, 1992	Heffner, III	370	85.8	Mar. 27, 1990
PS	F	5,133,079	Jul. 21, 1992	Ballantyne, et al.	455	4.1	Aug. 28, 1990
PS	G	5,195,092	Mar. 16, 1993	Wilson, et al.	370	94.2	Aug. 30, 1991
PS	H	5,200,993	Apr. 6, 1993	Wheeler, et al.	379	96	May 10, 1991
PS	I	5,247,347	Sep. 21, 1993	Litteral, et al.	358	85	Sep. 27, 1991
PS	J	5,373,288	Dec. 13, 1994	Blahut	340	825.08	Oct. 23, 1992

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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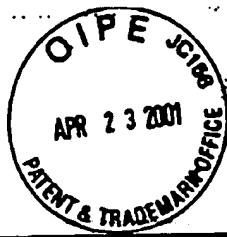
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DATE CONSIDERED

6/4/05

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PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
TER-002.2P

SERIAL NO.  
08/684,245

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE  
07/19/96

GRANTING  
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	5,408,465	Apr. 18, 1995	Gusella, et al.	370	17	Jun. 21, 1993
PS	B	5,550,578	Aug. 27, 1996	Hoarty, et al.	348	7	Oct. 8, 1994
PS	C	5,572,517	Nov. 5, 1996	Safadi	370	50	Mar. 10, 1995
PS	D	5,572,528	Nov. 5, 1996	Shuen	370	85.13	Mar. 20, 1995
PS	E	5,828,655	Oct. 27, 1998	Moura, et al.	370	236	Aug. 21, 1996
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PS	K	EP 0 767 544 A2	Apr. 9, 1997	Europe	H04B	1/707	X	
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DATE CONSIDERED

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SHEET 1 OF 1

FORM PTO-1449  
(Rev. 2-32)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
TER-002.3P D5

SERIAL NO.  
09/759,842

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
Rakib, et. al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE  
01/12/2001

GROUP  
2664

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	4,677,624	Jun. 30, 1987	Betts, et al.	371	43	Mar. 1, 1985
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
PS	S	Ungerboeck: "Trellis-Coded Modulation with Redundant Signal Sets. Part II: State of the Art" <i>IEEE Communications Magazine</i> , Vol. 25, No. 2, February 1987, pgs. 12-21.
PS	T	Pietrobon et. al. "Rotationally Invariant Nonlinear Trellis Codes for Two-Dimensional Modulation" <i>IEEE Transactions on Information Theory</i> , Vol. 40, No. 6, November 1994, pgs. 1773-1791.
PS	U	Biglieri et al. "Introduction to Trellis-Coded Modulation with Applications" 1991, MacMillan, New York.

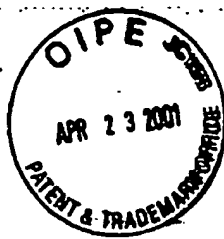
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ATTY. DOCKET NO.  
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INFORMATION DISCLOSURE  
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APPLICANT  
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	5,157,686	Oct. 20, 1992	Omura, et al.	375	1	Jun. 24, 1991
PS	B	5,164,958	Nov. 17, 1992	Omura	375	1	Jul. 19, 1991
PS	C	5,166,952	Nov. 24, 1992	Omura, et al.	375	1	May 24, 1990
PS	D	5,253,268	Oct. 12, 1993	Omura, et al.	375	1	Jun. 24, 1991
PS	E	5,737,329	Apr. 7, 1998	Horiguchi	370	342	Apr. 12, 1996
PS	F	5,930,235	Jul. 27, 1999	Arai	370	252	Feb. 28, 1997
PS	G	5,822,359	Oct. 13, 1998	Bruckert, et al.	375	200	Oct. 17, 1994
PS	H	5,610,911	Mar. 11, 1997	Ishikawa, et al.	370	503	Sep. 28, 1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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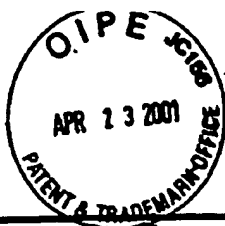
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SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
PS	S	"A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K. et al., <i>IEICE Transactions on Communications</i> , vol. E78-B, no. 7, 1 July 1995, pages 1002-1015.
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DATE CONSIDERED

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SHEET 1 OF 1

FORM PTO-1449 & TRADEMARK (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE FEDERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	5,751,739	May 12, 1998	Seshadri, et al.	371	43	Apr. 29, 1994
PS	B	4,218,654	Aug. 19, 1980	Ogawa, et al.	370	97	Feb. 21, 1979
PS	C	5,072,445	Dec. 10, 1991	Nawata	370	104	Nov. 30, 1989
PS	D	5,617,410	Apr. 1, 1997	Matsumoto	370	342	Mar. 15, 1995
PS	E	5,712,982	Jan. 27, 1998	Marcel	395	200.17	Sep. 20, 1995
PS	F	5,745,484	Apr. 28, 1998	Scott	370	347	Jun. 5, 1995
PS	G	5,761,188	Jun. 2, 1998	Kojima	370	337	Sep. 22, 1995
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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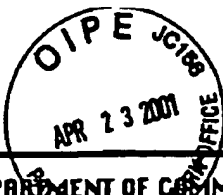
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*Dr. [Signature]*

DATE CONSIDERED

6/4/05

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FORM PTO-1449  
(Rev. 2-32)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
TER-002.3P

SERIAL NO.  
08/895,612

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE  
July 16, 1997

GROUP  
unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>PS</i>	A	5,499,238	Mar 12, 1996	Giallorenzi, et al.	370	18	Aug 16, 1994
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Apr 25 2001  
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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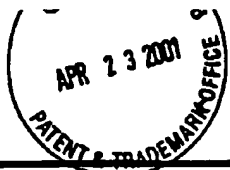
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*Drini*

DATE CONSIDERED

6/4/05

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FORM PTO-1449  
(Rev. 2-32)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
TER-002.3P

SERIAL NO.  
08/895,612

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE  
February 9, 1998

GROUP  
unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	5,488,412	Jan 30, 1996	Majeti, et al.	348	10	Mar 31, 1994
PS	B	5,512,935	Apr 30, 1996	Majeti, et al.	348	9	Mar 31, 1994
PS	C	5,534,913	Jul 9, 1996	Majeti, et al.	348	7	Mar 31, 1994
PS	D	5,586,121	Dec 17, 1996	Moura, et al.	370	404	Apr 21, 1995
PS	E	5,594,872	Jan 14, 1997	Kawano, et al.	395	200.15	Apr 26, 1994
PS	F	5,608,446	Mar 4, 1997	Carr, et al.	348	6	May 9, 1995
PS	G	5,608,728	Mar 4, 1997	Ulm, et al.	370	488	Apr 13, 1995
PS	H	5,619,531	Apr 8, 1997	Taylor, et al.	375	222	Nov 14, 1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	5,442,627	Aug. 15, 1995	Viterbi, et al.	370	22	Jun. 24, 1993
PS	B	5,452,328	Sep. 19, 1995	Rice	375	210	Jul. 30, 1993
PS	C	5,090,024	Feb. 18, 1992	Vander Mey, et al.	375	1	Aug. 23, 1989
PS	D	4,933,930	Jun. 12, 1990	Lien et al.	370	18	Oct. 31, 1988
PS	E	5,448,555	Sep. 5, 1995	Bremer et al.	370	20	Jun. 14, 1993
PS	F	5,404,570	Apr. 4, 1995	Charas et al.	455	22	Nov. 23, 1992
PS	G	5,440,585	Aug. 8, 1995	Partridge, III	375	261	Jun. 14, 1993
PS	H	4,723,164	Feb. 2, 1988	Nienaber	358	148	Jun. 28, 1985
PS	I	5,418,813	May 23, 1995	Schaffner et al.	375	205	Dec. 6, 1993
PS	J	4,926,130	May 15, 1990	Weaver	328	14	Jan. 19, 1988
PS	K	5,224,122	Jun. 29, 1993	Bruckert	375	1	Jun. 29, 1992
PS	L	5,325,394	Jun. 28, 1994	Bruckert	375	1	Mar. 3, 1993
PS	M	4,773,066	Sep. 20, 1988	Kirkman	370	85	Apr. 15, 1986
PS	N	4,912,721	Mar. 27, 1990	Pidgeon Jr., et al.	375	1	Apr. 29, 1988
PS	O	5,235,619	Aug. 10, 1993	Beyers, II et al.	375	38	Mar. 20, 1990

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PS	P	PCT/US95/10899	Mar. 21, 1996	PCT			X	
PS	Q	PCT/US95/04329	Oct. 26, 1995	PCT			X	
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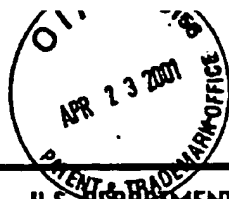
EXAMINER INITIAL			APR 25 2001
PS	T	Westlaw Dialog Search	Technology Center 2600
PS	U	R. De Gaudenzi et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global Telecommunications Conference, 1800-1804. (04/1990)	

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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	4,811,365	Mar 7, 1989	Manno	375	107	Nov 7, 1986
PS	B	5,425,027	Jun 13, 1995	Baran	370	69.1	Jan 4, 1993
PS	C	4,688,210	Aug 18, 1987	Eizenhofer, et al.	370	335	Mar 18, 1986
PS	D	5,539,730	Jul 23, 1996	Dent	370	320	Jan 11, 1994
PS	E	5,533,013	Jul 2, 1996	Leppanen	370	206	Apr 11, 1995
PS	F	5,481,533	Jan 2, 1996	Honig, et al.	375	206	May 12, 1994
PS	G	5,390,168	Feb 14, 1995	Rohanl, et al.	370	335	Jul 14, 1993
PS	H	5,363,404	Nov 8, 1994	Kotzin, et al.	370	352	Jul 13, 1993
PS	I	5,345,439	Sep 6, 1994	Marston	370	18	Apr 23, 1993
PS	J	5,347,304	Sep 13, 1994	Moura, et al.	348	12	Jul 28, 1993
PS	K	4,475,208	Oct 2, 1984	Ricketts	375	1	Jan 18, 1982
PS	L	4,635,274	Jan 6, 1987	Kubota	375	1	Apr 25, 1985
PS	M	5,463,660	Oct 31, 1995	Fukasawa, et al.	375	205	Aug. 3, 1994
PS	N	5,442,662	Aug. 15, 1995	Fukasawa, et al.	375	205	Jun. 16, 1994
PS	O	5,414,699	May 9, 1995	Lee	370	18	Sep. 27, 1993

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
PS	T	R. Lupas et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels, IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989)
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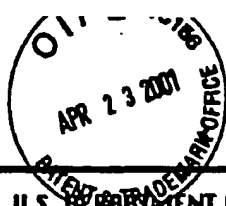
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SHEET 3 OF 4

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	5,345,472	Sep. 6, 1994	Lee	375	1	Aug. 2, 1993
PS	B	5,297,162	Mar. 22, 1994	Lee, et al.	375	1	Jun. 4, 1993
PS	C	5,327,455	Jul. 5, 1994	De Gaudenzi, et al.	375	1	Mar. 18, 1993
PS	D	5,319,634	Jun. 7, 1994	Bartholomew, et al.	370	18	Oct. 7, 1991
PS	E	5,416,797	May 16, 1995	Gilhousen, et al.	375	705	Jan. 24, 1992
PS	F	4,554,579	Nov. 19, 1985	Citta	358	86	Sep. 6, 1984
PS	G	4,553,161	Nov. 12, 1985	Citta	358	86	Sep. 6, 1984
PS	H	5,231,664	Jul. 27, 1993	Bestler, et al.	380	20	Nov. 14, 1991
PS	I	5,239,557	Aug. 24, 1993	Dent	371	1	Apr. 10, 1992
PS	J	4,460,992	Jul. 17, 1984	Gutleber	370	19	Nov. 4, 1982
PS	K	5,363,403	Nov. 8, 1994	Schilling, et al.	375	1	Apr. 22, 1993
PS	L	4,470,138	Sep. 4, 1984	Gutleber	370	18	Nov. 4, 1982
PS	M	5,394,391	Feb. 28, 1995	Chen, et al.	370	18	Oct. 15, 1992
PS	N	5,442,625	Aug. 15, 1995	Gittlin, et al.	370	18	May 13, 1994
PS	O	5,233,630	Aug. 3, 1993	Wolf	375	67	May 3, 1991
PS	P	4,757,460	Jul. 12, 1988	Bione, et al.	364	514	Jun. 14, 1985
PS	Q	5,235,615	Aug. 10, 1993	Omura	375	1	Jul. 21, 1992
PS	R	5,373,502	Dec. 13, 1994	Turban	370	18	Mar. 25, 1993
PS	S	5,353,300	Oct. 4, 1994	Lee, et al.	375	1	Jun. 7, 1993
PS	T	5,193,094	Mar. 9, 1993	Viterbi	371	43	Mar. 7, 1990
PS	U	5,359,624	Oct. 25, 1994	Lee, et al.	375	1	Jun. 7, 1993
PS	V	5,309,474	May 3, 1994	Gilhousen, et al.	375	1	Mar. 27, 1992
PS	W	5,280,472	Jan. 18, 1994	Gilhousen, et al.	370	18	Mar. 9, 1992
PS	X	5,313,454	May 17, 1994	Bustini, et al.	370	13	Apr. 1, 1992
PS	Y	5,467,342	Nov. 14, 1995	Longston, et al.	370	17	Oct. 5, 1994
P7	Z	5,305,308	Apr. 19, 1994	English, et al.	370	32.1	Oct. 29, 1992

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July 16, 1997

GROUP  
unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	4,748,681	May 31, 1998	Schmidt	455	33	Apr. 28, 1986
PS	B	5,295,152	Mar. 15, 1994	Gudmundson, et al.	375	1	Apr. 10, 1992
PS	C	5,442,700	Aug. 15, 1995	Snell, et al.	380	15	Sep. 22, 1994
DS	D	5,557,316	Sep. 17, 1996	Hoarty, et al.	348	7	Sep. 29, 1994
PS	E	5,511,067	Apr. 23, 1996	Miller	370	18	Jun. 17, 1994
PS	F	5,398,258	Mar. 14, 1995	Su, et al.	375	200	Oct. 26, 1993
PS	G	5,583,853	12/10/1996	Giallorenzi, et al.	370	441	11/28/95
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